

PathFinder

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
Fax 337-234-2988

PATHFINDER
A Schlumberger Company

15-41553

DIRECTIONAL SURVEY REPORT

DEVON ENERGY PRODUCTION CO., L.P.

SHAULA 30 FED COM 3H

EDDY COUNTY, NEW MEXICO

PREPARED BY: MARK TRAHAN

PathFinder

3329 W. Pinhook Rd.
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January 2, 2014

DEVON ENERGY PRODUCTION CO.
Attn: Judith Barnett
333 West Sheridan
Oklahoma City, OK 73102

RE: DEVON ENERGY PRODUCTION CO., L.P.
SHAULA 30 FED COM 3H
EDDY COUNTY, NM
RIG: H&P 300
API NO.: 30-015-41553
PES FILE NO.: 13LAF0317

Dear Ms. Barnett:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA
3 – Original Directional Survey Reports

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (337) 233-3982.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Trahan".

Mark Trahan
M/LWD Service Coordinator
PathFinder, a Schlumberger company

MT:tb

PathFinder

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DIRECTIONAL SURVEY COMPANY REPORT:

1. SURVEYING COMPANY: PATHFINDER, A SCHLUMBERGER COMPANY
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) AARON HARGRAVE
B) KEVIN BLANCHARD
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 12/04/13 TO 12/15/13
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY PRODUCTION CO., L.P.
SHAULA 30 FED COM 3H
EDDY COUNTY, NM
RIG: H&P 300
API NO.: 30-015-41553
9. SURVEY CERTIFIED FROM: 4,026 TO 13,640 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 5,098.55 FEET ON A BEARING OF 262.66 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED TO BIT DEPTH OF 13,640 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

A handwritten signature in black ink, appearing to read "Mark Trahan".

MARK TRAHAN
M/LWD SERVICE COORDINATOR

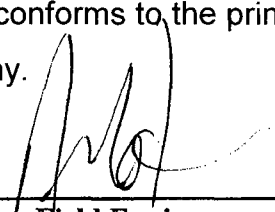
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STATE OF LOUISIANA
PARISH OF LAFAYETTE

I, **Aaron Hargrave**, certify that; I am employed by PathFinder, a Schlumberger company; that I did on the day(s) of **12/04/13** through **12/15/13** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **4,026 feet to a depth of 13,640 feet**; that the data is true, correct, complete and within the limitations of the tool as set forth by PathFinder, a Schlumberger company; that I am authorized and qualified to make this report; that this survey was conducted at the request of **DEVON ENERGY PRODUCTION CO., L.P.** for the **Shaula 30 Fed Com 3H Well API No. 30-015-41553** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by PathFinder, a Schlumberger company.



PathFinder Field Engineer

PathFinder – a Schlumberger company

BHL Report

Page 01/01
Tie-in Date: 12/04/2013
Date Completed: 12/15/2013

DEVON ENERGY PRODUCTION COMPANY
SHAULA "30" FED COM 3H
EDDY COUNTY, NM
API#: 30-015-41553 Rig: H&P 300
PathFinder Office Supervisor: MARK TRAHAN
PathFinder Field Engineers: AARON HARGRAVE
 KEVIN BLANCHARD

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.43.3.0340 N LON: 103.53.57.5849 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 674815.9300 Y: 625034.6400
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.24° EAST TO GRID
Vertical Section Plane: 268.39
Survey Vert. Reference: 26.00' Rotary Table To Ground
Altitude: 3621.00' Ground To MSL

Measured Depth	13640.00	(feet)
Inclination	92.33	(deg)
Azimuth	270.30	(deg)
True Vertical Depth	8782.26	(feet)
Vertical Section	5073.08	(feet)
Survey X cord	669759.15	(feet)
Survey Y cord	624383.32	(feet)
Survey Lat	32.71577506 N	(deg)
Survey Lon	103.91577919 W	(deg)
Rectangular Corr. N/S	651.32 S	(feet)
Rectangular Corr. E/W	5056.78 W	(feet)
Closure Distance	5098.55	(feet)
Direction of Closure	262.66	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY

SHAULA "30" FED COM 3H

EDDY COUNTY, NM

API#: 30-015-41553 Rig: H&P 300

PathFinder Office Supervisor: MARK TRAHAN

PathFinder Field Engineers: AARON HARGRAVE

KEVIN BLANCHARD

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.43.3.0340 N LON: 103.53.57.5849 W

GRID Reference: NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 674815.9300 Y: 625034.6400

North Aligned To: GRID NORTH

Total Magnetic Correction: 7.24° EAST TO GRID

Vertical Section Plane: 268.39

Survey Vert. Reference: 26.00' Rotary Table To Ground

Altitude: 3621.00' Ground To MSL

Survey Calculations by RX5 V6.05 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
THE FOLLOWING ARE VAUGHN ENERGY SERVICES GYRO SURVEYS.												
100.00	0.44	359.96	100.00	0.00	-0.00	0.39 N	0.01 W	32.71751051 N	103.89932917 W	0.39@	359.00	0.00
200.00	0.51	342.27	200.00	100.00	0.11	1.19 N	0.14 W	32.71751273 N	103.89932960 W	1.20@	353.19	0.16
300.00	1.02	353.28	299.99	100.00	0.31	2.50 N	0.38 W	32.71751633 N	103.89933036 W	2.53@	351.31	0.53
400.00	1.03	354.19	399.98	100.00	0.46	4.28 N	0.58 W	32.71752122 N	103.89933097 W	4.32@	352.32	0.02
500.00	1.03	356.82	499.96	100.00	0.55	6.07 N	0.72 W	32.71752615 N	103.89933141 W	6.11@	353.25	0.05
600.00	1.09	342.28	599.94	100.00	0.84	7.87 N	1.06 W	32.71753111 N	103.89933248 W	7.95@	352.35	0.27
700.00	0.50	351.62	699.93	100.00	1.15	9.21 N	1.41 W	32.71753479 N	103.89933362 W	9.32@	351.29	0.60
800.00	0.79	23.50	799.93	100.00	0.91	10.28 N	1.20 W	32.71753771 N	103.89933291 W	10.35@	353.34	0.45
900.00	0.69	12.75	899.92	100.00	0.47	11.50 N	0.79 W	32.71754106 N	103.89933157 W	11.52@	356.06	0.17
1000.00	0.93	29.71	999.91	100.00	-0.10	12.79 N	0.26 W	32.71754460 N	103.89932981 W	12.79@	358.85	0.34
1100.00	1.13	49.81	1099.89	100.00	-1.30	14.13 N	0.90 E	32.71754828 N	103.89932604 W	14.16@	3.64	0.41
1200.00	0.86	48.34	1199.88	100.00	-2.64	15.26 N	2.21 E	32.71755138 N	103.89932175 W	15.42@	8.25	0.27
1300.00	1.12	58.87	1299.86	100.00	-4.07	16.27 N	3.61 E	32.71755413 N	103.89931720 W	16.66@	12.51	0.32
1400.00	1.36	67.60	1399.84	100.00	-6.03	17.23 N	5.54 E	32.71755674 N	103.89931090 W	18.10@	17.84	0.30
1500.00	2.16	58.65	1499.79	100.00	-8.77	18.66 N	8.25 E	32.71756064 N	103.89930208 W	20.40@	23.85	0.84
1600.00	2.70	72.28	1599.70	100.00	-12.67	20.36 N	12.10 E	32.71756527 N	103.89928953 W	23.68@	30.74	0.79
1700.00	3.08	73.05	1699.57	100.00	-17.52	21.86 N	16.92 E	32.71756933 N	103.89927386 W	27.64@	37.74	0.38
1800.00	3.31	72.07	1799.42	100.00	-22.89	23.53 N	22.23 E	32.71757387 N	103.89925655 W	32.37@	43.38	0.24
1900.00	3.35	64.56	1899.25	100.00	-28.33	25.67 N	27.62 E	32.71757970 N	103.89923901 W	37.71@	47.09	0.44
2000.00	2.86	67.51	1999.10	100.00	-33.33	27.88 N	32.56 E	32.71758572 N	103.89922291 W	42.87@	49.43	0.52
2100.00	2.59	62.52	2098.99	100.00	-37.70	29.88 N	36.87 E	32.71759116 N	103.89920887 W	47.46@	50.98	0.36
2200.00	2.68	58.43	2198.88	100.00	-41.76	32.14 N	40.87 E	32.71759734 N	103.89919584 W	52.00@	51.81	0.21
2300.00	3.19	44.57	2298.75	100.00	-45.79	35.35 N	44.81 E	32.71760611 N	103.89918298 W	57.08@	51.73	0.87

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY
SHAULA "30" FED COM 3H
EDDY COUNTY, NM
API#: 30-015-41553 Rig: H&P 300

Page 02/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2400.00	3.40	51.00	2398.59	100.00	-50.15	39.20 N	49.07 E	32.71761664 N	103.89916908 W	62.80@	51.38	0.42
2500.00	3.62	43.98	2498.40	100.00	-54.76	43.34 N	53.57 E	32.71762796 N	103.89915441 W	68.90@	51.03	0.48
2600.00	3.15	50.99	2598.23	100.00	-59.20	47.34 N	57.89 E	32.71763891 N	103.89914028 W	74.78@	50.73	0.63
2700.00	2.78	56.51	2698.09	100.00	-63.44	50.41 N	62.05 E	32.71764730 N	103.89912673 W	79.94@	50.91	0.47
2800.00	2.50	50.88	2797.99	100.00	-67.23	53.12 N	65.77 E	32.71765472 N	103.89911461 W	84.54@	51.07	0.38
2900.00	2.47	61.45	2897.89	100.00	-70.88	55.53 N	69.35 E	32.71766129 N	103.89910292 W	88.84@	51.32	0.46
3000.00	2.19	55.67	2997.81	100.00	-74.41	57.63 N	72.82 E	32.71766704 N	103.89909161 W	92.87@	51.64	0.36
3100.00	1.66	53.22	3097.76	100.00	-77.20	59.58 N	75.56 E	32.71767236 N	103.89908268 W	96.22@	51.74	0.54
3200.00	1.70	45.68	3197.71	100.00	-79.48	61.48 N	77.78 E	32.71767756 N	103.89907544 W	99.15@	51.68	0.23
3300.00	1.33	36.22	3297.68	100.00	-81.28	63.45 N	79.53 E	32.71768297 N	103.89906973 W	101.74@	51.41	0.45
3400.00	1.04	45.52	3397.66	100.00	-82.66	65.03 N	80.86 E	32.71768727 N	103.89906537 W	103.76@	51.19	0.35
3500.00	1.17	41.06	3497.64	100.00	-84.01	66.43 N	82.18 E	32.71769112 N	103.89906107 W	105.67@	51.05	0.16
3600.00	1.04	31.76	3597.62	100.00	-85.20	67.97 N	83.33 E	32.71769535 N	103.89905732 W	107.54@	50.79	0.22
3700.00	0.62	44.44	3697.61	100.00	-86.09	69.13 N	84.18 E	32.71769852 N	103.89905451 W	108.93@	50.61	0.46
3800.00	0.89	37.03	3797.60	100.00	-86.97	70.14 N	85.03 E	32.71770128 N	103.89905175 W	110.22@	50.48	0.29
3900.00	0.69	20.16	3897.59	100.00	-87.68	71.32 N	85.71 E	32.71770453 N	103.89904954 W	111.50@	50.23	0.30
4000.00	0.74	18.72	3997.58	100.00	-88.12	72.50 N	86.12 E	32.71770776 N	103.89904817 W	112.57@	49.91	0.05
** TIED INTO VAUGHN ENERGY SERVICES GYRO SURVEYS @ 4026' MD.												
4026.00	0.71	2.16	4023.58	26.00	-88.19	72.82 N	86.18 E	32.71770863 N	103.89904797 W	112.83@	49.80	0.81
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
4147.00	0.62	28.16	4144.57	121.00	-88.57	74.15 N	86.52 E	32.71771228 N	103.89904686 W	113.94@	49.40	0.26
4210.00	0.35	135.82	4207.57	63.00	-88.87	74.31 N	86.81 E	32.71771272 N	103.89904590 W	114.27@	49.44	1.27
4304.00	1.41	167.99	4301.56	94.00	-89.27	72.97 N	87.25 E	32.71770904 N	103.89904448 W	113.75@	50.09	1.20
4399.00	1.85	176.87	4396.52	95.00	-89.52	70.30 N	87.58 E	32.71770168 N	103.89904346 W	112.30@	51.25	0.53
4493.00	2.37	179.51	4490.46	94.00	-89.52	66.84 N	87.68 E	32.71769218 N	103.89904318 W	110.25@	52.68	0.56
4588.00	3.08	189.09	4585.35	95.00	-89.01	62.35 N	87.29 E	32.71767986 N	103.89904450 W	107.28@	54.46	0.89
4682.00	3.78	195.33	4679.18	94.00	-87.64	56.87 N	86.07 E	32.71766480 N	103.89904853 W	103.17@	56.55	0.84
4777.00	4.31	193.39	4773.94	95.00	-85.80	50.38 N	84.42 E	32.71764697 N	103.89905400 W	98.31@	59.17	0.58

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY
SHAULA "30" FED COM 3H
EDDY COUNTY, NM
API#: 30-015-41553 Rig: H&P 300

Page 03/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
4872.00	4.84	191.55	4868.64	95.00	-83.97	42.98 N	82.79 E	32.71762665 N	103.89905939 W	93.28@	62.56	0.58
4966.00	5.45	194.89	4962.26	94.00	-81.80	34.78 N	80.85 E	32.71760414 N	103.89906581 W	88.01@	66.72	0.72
5061.00	6.68	195.76	5056.73	95.00	-78.86	25.10 N	78.19 E	32.71757757 N	103.89907459 W	82.12@	72.20	1.30
5155.00	8.18	195.33	5149.94	94.00	-75.28	13.39 N	74.94 E	32.71754541 N	103.89908532 W	76.12@	79.87	1.60
5250.00	9.23	195.41	5243.84	95.00	-71.08	0.47 S	71.13 E	32.71750735 N	103.89909790 W	71.13@	90.38	1.11
5344.00	8.79	194.54	5336.68	94.00	-66.88	14.69 S	67.32 E	32.71746831 N	103.89911047 W	68.90@	102.31	0.49
5439.00	9.58	194.45	5430.46	95.00	-62.67	29.37 S	63.52 E	32.71742800 N	103.89912300 W	69.99@	114.82	0.83
5533.00	9.41	194.89	5523.17	94.00	-58.33	44.37 S	59.60 E	32.71738681 N	103.89913597 W	74.30@	126.67	0.20
5627.00	9.15	197.17	5615.94	94.00	-53.74	58.94 S	55.42 E	32.71734682 N	103.89914975 W	80.90@	136.77	0.48
5722.00	8.79	199.98	5709.78	95.00	-48.64	72.98 S	50.71 E	32.71730828 N	103.89916526 W	88.87@	145.21	0.60
5817.00	9.15	197.26	5803.62	95.00	-43.52	87.02 S	45.98 E	32.71726976 N	103.89918079 W	98.42@	152.15	0.59
5911.00	8.44	199.02	5896.51	94.00	-38.67	100.67 S	41.52 E	32.71723227 N	103.89919550 W	108.90@	157.59	0.81
6006.00	8.88	194.36	5990.43	95.00	-34.20	114.37 S	37.43 E	32.71719467 N	103.89920898 W	120.34@	161.88	0.87
6100.00	9.58	190.40	6083.22	94.00	-30.58	129.09 S	34.22 E	32.71715424 N	103.89921962 W	133.55@	165.15	1.01
6194.00	8.53	192.07	6176.04	94.00	-27.30	143.60 S	31.35 E	32.71711439 N	103.89922914 W	146.98@	167.69	1.15
6289.00	9.41	189.35	6269.88	95.00	-24.16	158.16 S	28.61 E	32.71707442 N	103.89923823 W	160.72@	169.75	1.03
6384.00	8.35	191.99	6363.74	95.00	-21.06	172.57 S	25.92 E	32.71703484 N	103.89924718 W	174.50@	171.46	1.19
6478.00	8.27	186.89	6456.76	94.00	-18.45	185.96 S	23.69 E	32.71699806 N	103.89925461 W	187.46@	172.74	0.79
6573.00	9.23	187.33	6550.65	95.00	-16.26	200.30 S	21.90 E	32.71695867 N	103.89926062 W	201.49@	173.76	1.01
6667.00	8.35	189.35	6643.54	94.00	-13.79	214.51 S	19.83 E	32.71691963 N	103.89926754 W	215.42@	174.72	0.99
6762.00	8.88	184.08	6737.47	95.00	-11.75	228.63 S	18.18 E	32.71688084 N	103.89927307 W	229.35@	175.45	1.00
6856.00	9.50	186.71	6830.27	94.00	-9.91	243.57 S	16.76 E	32.71683979 N	103.89927790 W	244.14@	176.06	0.80
6950.00	8.53	188.82	6923.10	94.00	-7.53	258.16 S	14.79 E	32.71679970 N	103.89928451 W	258.59@	176.72	1.09
7045.00	9.41	190.76	7016.94	95.00	-4.59	272.75 S	12.26 E	32.71675962 N	103.89929294 W	273.03@	177.43	0.98
7140.00	8.35	197.00	7110.80	95.00	-0.72	286.98 S	8.79 E	32.71672055 N	103.89930440 W	287.12@	178.25	1.51
7234.00	8.62	189.09	7203.78	94.00	2.76	300.46 S	5.68 E	32.71668353 N	103.89931468 W	300.52@	178.92	1.27
7328.00	9.76	187.42	7296.57	94.00	5.32	315.32 S	3.54 E	32.71664271 N	103.89932185 W	315.34@	179.36	1.25

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY
SHAULA "30" FED COM 3H
EDDY COUNTY, NM
API#: 30-015-41553 Rig: H&P 300

Page 04/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
7423.00	10.20	195.06	7390.14	95.00	9.00	331.43 S	0.31 E	32.71659847 N	103.89933255 W	331.43@	179.95	1.47
7518.00	9.15	194.97	7483.78	95.00	13.57	346.85 S	3.82 W	32.71655614 N	103.89934620 W	346.87@	180.63	1.11
7612.00	9.85	196.12	7576.50	94.00	18.15	361.80 S	7.99 W	32.71651511 N	103.89935994 W	361.88@	181.26	0.77
7707.00	8.35	192.51	7670.30	95.00	22.31	376.34 S	11.74 W	32.71647518 N	103.89937233 W	376.52@	181.79	1.69
7801.00	8.44	195.24	7763.29	94.00	25.97	389.66 S	15.03 W	32.71643861 N	103.89938321 W	389.95@	182.21	0.43
7896.00	7.47	194.71	7857.38	95.00	29.73	402.36 S	18.43 W	32.71640374 N	103.89939443 W	402.78@	182.62	1.02
7990.00	7.83	199.10	7950.54	94.00	33.71	414.32 S	22.08 W	32.71637090 N	103.89940645 W	414.90@	183.05	0.73
8085.00	9.06	197.88	8044.51	95.00	38.49	427.55 S	26.49 W	32.71633458 N	103.89942098 W	428.37@	183.55	1.31
8179.00	9.50	196.91	8137.28	94.00	43.43	442.02 S	31.02 W	32.71629487 N	103.89943589 W	443.10@	184.01	0.50
8238.00	8.79	199.19	8195.53	59.00	46.57	450.93 S	33.92 W	32.71627040 N	103.89944543 W	452.21@	184.30	1.35
8260.00	8.35	200.25	8217.28	22.00	47.77	454.02 S	35.02 W	32.71626193 N	103.89944907 W	455.37@	184.41	2.13
8292.00	9.58	206.01	8248.89	32.00	49.87	458.59 S	37.00 W	32.71624938 N	103.89945554 W	460.08@	184.61	4.75
8323.00	12.84	211.83	8279.30	31.00	52.96	463.84 S	39.94 W	32.71623499 N	103.89946520 W	465.55@	184.92	11.12
8355.00	16.71	215.45	8310.23	32.00	57.69	470.61 S	44.49 W	32.71621643 N	103.89948007 W	472.71@	185.40	12.43
8386.00	20.93	217.68	8339.57	31.00	63.89	478.63 S	50.46 W	32.71619446 N	103.89949959 W	481.28@	186.02	13.81
8417.00	23.30	220.16	8368.29	31.00	71.48	487.69 S	57.80 W	32.71616962 N	103.89952358 W	491.11@	186.76	8.21
8449.00	24.36	223.56	8397.56	32.00	80.38	497.31 S	66.43 W	32.71614327 N	103.89955176 W	501.73@	187.61	5.42
8480.00	24.89	227.67	8425.74	31.00	89.86	506.34 S	75.66 W	32.71611857 N	103.89958189 W	511.96@	188.50	5.78
8512.00	26.73	234.11	8454.55	32.00	100.91	515.10 S	86.47 W	32.71609462 N	103.89961716 W	522.30@	189.53	10.47
8543.00	28.84	242.05	8481.99	31.00	113.38	522.69 S	98.73 W	32.71607388 N	103.89965712 W	531.93@	190.70	13.73
8575.00	31.74	249.40	8509.63	32.00	128.26	529.27 S	113.44 W	32.71605596 N	103.89970502 W	541.29@	192.10	14.69
8606.00	34.47	255.18	8535.60	31.00	144.52	534.39 S	129.56 W	32.71604208 N	103.89975750 W	549.87@	193.63	13.45
8638.00	36.32	258.09	8561.69	32.00	162.66	538.66 S	147.59 W	32.71603054 N	103.89981618 W	558.51@	195.32	7.82
8669.00	37.46	260.03	8586.48	31.00	181.02	542.19 S	165.86 W	32.71602105 N	103.89987562 W	566.99@	197.01	5.26
8700.00	39.83	261.16	8610.69	31.00	200.20	545.35 S	184.95 W	32.71601258 N	103.89993776 W	575.86@	198.73	7.98
8732.00	42.56	262.10	8634.77	32.00	221.13	548.41 S	205.80 W	32.71600440 N	103.90000559 W	585.75@	200.57	8.75
8763.00	46.17	262.85	8656.92	31.00	242.69	551.24 S	227.29 W	32.71599685 N	103.90007549 W	596.26@	202.41	11.77

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY
SHAULA "30" FED COM 3H
EDDY COUNTY, NM
API#: 30-015-41553 Rig: H&P 300

Page 05/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
8795.00	49.42	263.58	8678.42	32.00	266.29	554.04 S	250.82 W	32.71598943 N	103.90015204 W	608.17@	204.36	10.29
8827.00	51.00	265.62	8698.90	32.00	290.82	556.35 S	275.30 W	32.71598336 N	103.90023166 W	620.74@	206.33	6.95
8858.00	53.90	266.35	8717.79	31.00	315.38	558.07 S	299.81 W	32.71597891 N	103.90031139 W	633.50@	208.25	9.54
8889.00	57.07	266.68	8735.35	31.00	340.90	559.62 S	325.31 W	32.71597493 N	103.90039429 W	647.30@	210.17	10.26
8921.00	60.76	266.98	8751.87	32.00	368.29	561.13 S	352.67 W	32.71597108 N	103.90048326 W	662.75@	212.15	11.56
8953.00	64.81	267.00	8766.50	32.00	396.74	562.63 S	381.08 W	32.71596729 N	103.90057566 W	679.53@	214.11	12.66
8984.00	68.06	267.58	8778.90	31.00	425.14	563.97 S	409.46 W	32.71596392 N	103.90066795 W	696.93@	215.98	10.62
9016.00	71.93	267.82	8789.84	32.00	455.20	565.17 S	439.50 W	32.71596095 N	103.90076563 W	715.94@	217.87	12.11
9047.00	76.85	268.17	8798.18	31.00	485.05	566.22 S	469.33 W	32.71595841 N	103.90086263 W	735.44@	219.65	15.91
9066.00	78.70	268.91	8802.20	19.00	503.62	566.69 S	487.89 W	32.71595732 N	103.90092299 W	747.78@	220.73	10.45
9097.00	80.90	268.84	8807.69	31.00	534.12	567.29 S	518.39 W	32.71595602 N	103.90102217 W	768.47@	222.42	7.10
9129.00	82.22	269.02	8812.39	32.00	565.78	567.88 S	550.04 W	32.71595475 N	103.90112508 W	790.59@	224.09	4.16
9223.00	85.12	268.92	8822.75	94.00	659.19	569.56 S	643.44 W	32.71595118 N	103.90142878 W	859.31@	228.49	3.09
9319.00	87.58	268.96	8828.86	96.00	754.98	571.33 S	739.22 W	32.71594738 N	103.90174023 W	934.27@	232.30	2.56
9413.00	89.25	268.21	8831.46	94.00	848.94	573.65 S	833.15 W	32.71594205 N	103.90204566 W	1011.54@	235.45	1.95
9508.00	89.60	267.64	8832.42	95.00	943.93	577.09 S	928.08 W	32.71593366 N	103.90235437 W	1092.87@	238.13	0.70
9602.00	90.84	267.62	8832.06	94.00	1037.92	580.98 S	1022.00 W	32.71592403 N	103.90265978 W	1175.59@	240.38	1.32
9697.00	91.19	267.26	8830.37	95.00	1132.89	585.22 S	1116.89 W	32.71591342 N	103.90296835 W	1260.92@	242.35	0.53
9791.00	91.36	267.79	8828.28	94.00	1226.86	589.28 S	1210.78 W	32.71590332 N	103.90327367 W	1346.57@	244.05	0.59
9886.00	90.40	268.07	8826.82	95.00	1321.84	592.71 S	1305.71 W	32.71589494 N	103.90358235 W	1433.94@	245.58	1.05
9981.00	88.99	268.31	8827.33	95.00	1416.84	595.71 S	1400.65 W	32.71588775 N	103.90389111 W	1522.07@	246.96	1.51
10075.00	88.64	268.51	8829.27	94.00	1510.82	598.32 S	1494.60 W	32.71588163 N	103.90419658 W	1609.91@	248.18	0.43
10170.00	89.69	268.20	8830.66	95.00	1605.81	601.04 S	1589.55 W	32.71587519 N	103.90450533 W	1699.39@	249.29	1.15
10264.00	89.08	268.38	8831.67	94.00	1699.80	603.85 S	1683.50 W	32.71586853 N	103.90481084 W	1788.52@	250.27	0.68
10359.00	90.40	268.35	8832.10	95.00	1794.80	606.56 S	1778.46 W	32.71586213 N	103.90511962 W	1879.05@	251.17	1.39
10453.00	89.87	267.87	8831.88	94.00	1888.80	609.66 S	1872.41 W	32.71585465 N	103.90542512 W	1969.16@	251.96	0.76
10548.00	89.16	267.32	8832.68	95.00	1983.78	613.65 S	1967.32 W	32.71584475 N	103.90573376 W	2060.80@	252.68	0.94

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY
SHAULA "30" FED COM 3H
EDDY COUNTY, NM
API#: 30-015-41553 Rig: H&P 300

Page 06/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
10642.00	88.20	267.47	8834.84	94.00	2077.74	617.92 S	2061.20 W	32.71583405 N	103.90603905 W	2151.82@	253.31	1.03
10737.00	89.25	267.61	8836.96	95.00	2172.71	621.99 S	2156.08 W	32.71582390 N	103.90634762 W	2244.01@	253.91	1.11
10831.00	89.25	268.18	8838.19	94.00	2266.70	625.45 S	2250.01 W	32.71581545 N	103.90665305 W	2335.32@	254.47	0.61
10926.00	89.78	268.86	8838.99	95.00	2361.69	627.90 S	2344.97 W	32.71580975 N	103.90696185 W	2427.58@	255.01	0.91
11020.00	89.34	269.36	8839.71	94.00	2455.68	629.36 S	2438.96 W	32.71580678 N	103.90726745 W	2518.85@	255.53	0.71
11115.00	90.22	269.71	8840.08	95.00	2550.66	630.13 S	2533.96 W	32.71580571 N	103.90757632 W	2611.13@	256.04	1.00
11209.00	89.69	267.96	8840.15	94.00	2644.65	632.04 S	2627.93 W	32.71580149 N	103.90788189 W	2702.87@	256.48	1.95
11303.00	90.31	267.63	8840.15	94.00	2738.65	635.66 S	2721.86 W	32.71579259 N	103.90818734 W	2795.10@	256.85	0.75
11398.00	91.19	267.17	8838.91	95.00	2833.62	639.97 S	2816.75 W	32.71578179 N	103.90849593 W	2888.54@	257.20	1.05
11492.00	90.57	266.66	8837.47	94.00	2927.58	645.03 S	2910.61 W	32.71576892 N	103.90880114 W	2981.22@	257.50	0.85
11587.00	91.19	267.83	8836.01	95.00	3022.55	649.59 S	3005.48 W	32.71575742 N	103.90910968 W	3074.88@	257.80	1.39
11681.00	90.57	268.18	8834.56	94.00	3116.53	652.86 S	3099.41 W	32.71574945 N	103.90941512 W	3167.43@	258.11	0.76
11776.00	92.42	268.25	8832.09	95.00	3211.50	655.82 S	3194.33 W	32.71574237 N	103.90972377 W	3260.96@	258.40	1.95
11870.00	92.24	268.46	8828.26	94.00	3305.42	658.52 S	3288.22 W	32.71573599 N	103.91002906 W	3353.51@	258.68	0.29
11965.00	92.33	269.50	8824.48	95.00	3400.34	660.21 S	3383.12 W	32.71573238 N	103.91033766 W	3446.94@	258.96	1.10
12059.00	92.51	270.25	8820.51	94.00	3494.22	660.41 S	3477.04 W	32.71573285 N	103.91064301 W	3539.20@	259.25	0.82
12154.00	92.51	269.69	8816.35	95.00	3589.09	660.46 S	3571.95 W	32.71573375 N	103.91095159 W	3632.49@	259.52	0.59
12248.00	91.01	270.47	8813.46	94.00	3683.01	660.33 S	3665.90 W	32.71573514 N	103.91125706 W	3724.90@	259.79	1.80
12343.00	89.96	269.87	8812.66	95.00	3777.95	660.05 S	3760.89 W	32.71573696 N	103.91156592 W	3818.38@	260.05	1.27
12438.00	89.87	270.83	8812.80	95.00	3872.90	659.47 S	3855.89 W	32.71573959 N	103.91187478 W	3911.88@	260.29	1.01
12532.00	88.90	270.07	8813.81	94.00	3966.83	658.73 S	3949.88 W	32.71574265 N	103.91218037 W	4004.43@	260.53	1.31
12627.00	89.43	269.83	8815.19	95.00	4061.78	658.81 S	4044.87 W	32.71574346 N	103.91248921 W	4098.17@	260.75	0.61
12721.00	89.43	268.75	8816.12	94.00	4155.77	659.98 S	4138.86 W	32.71574128 N	103.91279481 W	4191.15@	260.94	1.15
12816.00	90.31	268.59	8816.34	95.00	4250.76	662.18 S	4233.83 W	32.71573625 N	103.91310363 W	4285.30@	261.11	0.94
12910.00	90.84	268.88	8815.40	94.00	4344.76	664.26 S	4327.80 W	32.71573157 N	103.91340919 W	4378.48@	261.27	0.64
13005.00	91.19	270.30	8813.71	95.00	4439.72	664.94 S	4422.78 W	32.71573074 N	103.91371802 W	4472.49@	261.45	1.54
13099.00	92.24	271.54	8810.90	94.00	4533.58	663.43 S	4516.72 W	32.71573591 N	103.91402344 W	4565.19@	261.64	1.73

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY
 SHAULA "30" FED COM 3H
 EDDY COUNTY, NM
 API#: 30-015-41553 Rig: H&P 300

Page 07/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
13194.00	93.12	271.70	8806.46	95.00	4628.33	660.75 S	4611.58 W	32.71574431 N	103.91433182 W	4658.68@	261.85	0.94
13288.00	93.74	271.96	8800.83	94.00	4721.99	657.75 S	4705.37 W	32.71575356 N	103.91463670 W	4751.12@	262.04	0.71
13382.00	93.47	271.83	8794.92	94.00	4815.63	654.65 S	4799.13 W	32.71576311 N	103.91494152 W	4843.57@	262.23	0.32
13477.00	93.12	270.76	8789.46	95.00	4910.35	652.50 S	4893.94 W	32.71577003 N	103.91524977 W	4937.25@	262.41	1.18
13561.00	92.33	270.30	8785.47	84.00	4994.19	651.73 S	4977.84 W	32.71577307 N	103.91552255 W	5020.33@	262.54	1.09
STRAIGHT LINE PROJECTION TO BIT AT 13640' MD.												
13640.00	92.33	270.30	8782.26	79.00	5073.08	651.32 S	5056.78 W	32.71577506 N	103.91577919 W	5098.55@	262.66	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder – a Schlumberger company and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.